



Important Relations: (mpm & pmp)

$$\angle AE = J_C + J_B \implies J_E = (I+\beta)J_B$$
 $\angle J_C = \beta J_B \implies Active region$
 $\angle J_C = \alpha J_E \implies J_C = \frac{\beta}{I+\beta}J_E$
 $\angle \beta = \frac{\alpha}{I-\alpha}J_E$
 $\angle \alpha = \frac{\beta}{I+\beta}J_E$









